

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No. MO-0103659

Owner: Cedar Fair, LP
Address: P.O. Box 5006, Sandusky, OH 44871

Continuing Authority: Same as above
Address: Same as above

Facility Name: Worlds of Fun
Facility Address: 4545 Worlds of Fun Avenue, Kansas City, MO 64161

Legal Description: SE ¼, NW ¼, Sec. 3, T50N, R32W, Clay County

Receiving Stream: Unnamed tributary to Shoal Creek (U)
First Classified Stream and ID: Shoal Creek (P) (00396)
USGS Basin & Sub-watershed No.: (10300101-040001)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

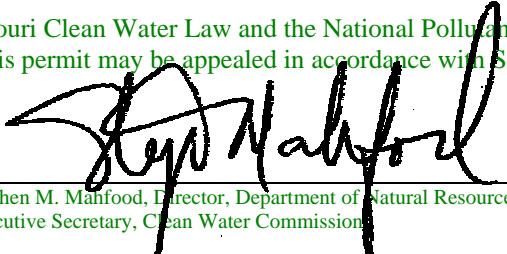
FACILITY DESCRIPTION

See Page 2

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

September 12, 1997
Effective Date

April 18, 2003
Issue Date


Stephen M. Mahfood, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

April 17, 2008
Expiration Date
MO 780-0041 (10-93)

James R. Macy, Director, Kansas City Regional Office

Facility Description (continued)

Outfall #001 - Amusement Park - SIC #7996

Seasonal discharge/storm water run-off/lawn watering run-off.
Design flow is 26,000 gallons per day
Actual flow is dependent on precipitation.

Outfalls #002, #003 & #004 - Amusement Park - SIC #7996

Oil reservoir sill containment basins.
Actual flow is dependent on precipitation.

Outfall #005 - Pond/seasonal discharge.

Design flow is 187,000 gallons per year.
Actual flow is dependent on precipitation.

Outfall #006 - Pond/seasonal discharge.

Design flow is 834,000 gallons per year.
Actual flow is dependent on precipitation.

Outfall #007 - Pond/seasonal discharge.

Design flow is 524,000 gallons per year.
Actual flow is dependent on precipitation.

Outfall #008 - Formerly Oceans of Fun (MO-0103721) Outfalls #001 and #007.

Boat Lake Overflow/Amusement Park/Stormwater run-off - SIC #7996

Design flow is 225,000 gallons per day.
Actual flow is dependent on precipitation.
Seasonal discharge/stormwater run-off.
"Fury of the Nile" drainage.
Design flow is 800,000 gallons per year.
Actual flow is dependent on precipitation.

Outfall #009 - Formerly Oceans of Fun (MO-0103721) Outfalls #002-#006.

Seasonal discharge/stormwater sewer/lawn watering run-off.
Design flow is 53,000 gallons per day.
Actual flow is dependent on precipitation.
Seasonal discharge (wavepool drainage/speed slide/swimming lake drainage).
Design flow is 1,822,500 per year.
Actual flow is dependent on precipitation.

Outfall #010 - Instream compliance point. Just below low water crossing east of the confluence of "Oceans of Fun" creek. SE $\frac{1}{4}$, SW $\frac{1}{4}$, Sec. 3, T50N, R32W, Clay County.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 3 of 8	
					PERMIT NUMBER MO-0103659	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfalls #001, #008, & #009</u>						
Flow	MGD	*		*	daily	****
Rainfall	inches	*		*	once/event	total
Biochemical Oxygen Demand ₅	mg/L	45		30	once/month	grab
Total Suspended Solids	mg/L	45		30	once/month	grab
pH - Units	SU	**		**	once/month	grab
Chlorine, Total Residual (Note 3)	mg/L	0.019		0.019	once/month	grab
Oil and Grease	mg/L	15		10	once/month	grab
Copper, Total	µg/L	45.9		22.9	once/month	grab
Neptune Blue***	mg/L	*		*	once/month	grab
<u>Outfalls #002, #003 & #004 (Note 1)</u>						
Flow	MGD	*		*	once/event discharge	total
rainfall	inches	*		*	once/event	total
Oil & Grease	mg/L	15		10	once/event	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>June 28, 2003</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

					PAGE NUMBER 4 of 8	
A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)					PERMIT NUMBER MO-0103659	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfalls #005, #006, & #007</u> (Note 2)						
Flow	MGD	*		*	once/month discharge	****
Rainfall	inches	*		*	once/event	total
Biochemical Oxygen Demand ₅	mg/L	45		30	once/month	grab
Total Suspended Solids	mg/L	45		30	once/month	grab
pH - Units	SU	**		**	once/month	grab
Oil & grease	mg/L	15		10	once/month	grab
Chlorine, Total Residual (Note 4)	mg/L	0.019		0.019	once/month	grab
Copper, total recoverable	µg/L	45.9		22.9	once/month	grab
Algaecide*****	lbs	*		*	once/month	grab
<u>Outfall #010</u> (Note 3)						
Flow	MGD	*		*	once/month	grab
Biochemical Oxygen Demand ₅	mg/L	*		*	once/month	grab
Total Suspended Solids	mg/L	*		*	once/month	grab
pH - Units	SU	*		*	once/month	grab
Chlorine, Total Residual (Note 4)	mg/L	*		*	once/month	grab
Oil & grease	mg/L	*		*	once/month	grab
Copper, total recoverable	µg/L	*		*	once/month	grab
Dissolved Oxygen	mg/L	*		*	once/month	grab
Neptune Blue***	mg/L	*		*	once/month	grab
Algaecide*****	lbs	*		*	once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE <u>June 28, 2003</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
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MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- *** Neptune Blue is the trademark of the current dye in use. Whatever dye is being used will be monitored in the effluent
- **** Instantaneous measurements converted to 24 hour total.
- ***** Monitor for whatever brand of algaecide is being used in the ponds by the facility. If no algaecide is used report "0" lbs. for the monthly report.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

Note 1 - The oil spill contingency plan should be kept on site at each outfall and strictly adhered to when a spill occurs. Water that has accumulated in secondary containment areas must be examined for possible contamination and tested if necessary. When the presence of contaminants is indicated, water shall be treated before release or taken to a permitted treatment facility if it does not meet permit limits of 15 mg/L for Oil and Grease.

Note 2 - Prior to any release from these outfalls, water quality will be ascertained by grab sampling the water within the system tributary to that particular outfall. Samples will be taken no more than two weeks prior to anticipated discharge. Sample results must meet permit limits before drainage is allowed.

Note 3 - Location of outfall #010 - Just below low water crossing east of the confluence of "Oceans of Fun" creek. SE ¼, SW ¼, Sec. 3, T50N, R32W, Clay County.

Note 4 - This permit contains a Total Residual Chlorine (TRC) limit.

- a. If the TRC limit in this permit is 0.019 mg/L or 0.2 mg/L, you must use an analytical method that has a quantification limit of no greater than 0.05 mg/L TRC. For reporting purposes on the discharge monitoring report (DMR), all analytical values below 0.05 mg/L shall be reported as "<quantlim." All analytical values at or above the quantification limit of 0.05 mg/L shall be reported as the measured value. The permittee shall report the quantification limit in the remarks section of the DMR.

The average monthly effluent values for TRC will be determined by assuming that analytical results below the quantification limit are equivalent to 0 mg/L when calculating the monthly average.

The daily effluent value will be considered equal to 0 mg/L if it is below the quantification limit.

- b. If the TRC limit in this permit is 1.0 mg/L; you must use an analytical method with a quantification limit between 0.2 and 0.5 mg/L. All analytical values below the quantification limit shall be reported as "<quantlim." All analytical values at or above the quantification limit shall be reported as the measured value.

The average monthly effluent values for TRC will be determined by assuming that analytical results below the quantification limit are equivalent to 0 mg/L when calculating the monthly average.

The daily effluent value will be considered equal to 0 mg/L if it is below the quantification limit.

- c. Do not chemically dechlorinate if it is not needed to meet the limits in your permit.
- d. If no chlorine was used in a given sampling period, an actual analysis is not necessary. Simply report as "0 mg/L" TRC.

C. SPECIAL CONDITIONS

1. This permit requires monitoring through the seasonal period in which the park is in operation and during opening and closing procedures. Reporting is required for all months.
2. There shall be no release of polychlorinated biphenyl compounds (PCBs) to waters of the state at or above the level of quantification defined as 1 ug/L or 1 ppb.

C. SPECIAL CONDITIONS (continued)

3. This permit may be reopened and modified, or alternatively revoked and reissued, to:
- (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

4. All outfalls must be clearly marked in the field.

5. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.

6. Report as no-discharge when a discharge does not occur during the report period.

7. All fueling facilities present on the site shall adhere to applicable federal and state regulations concerning underground storage, above ground storage, and dispensers, including spill prevention, control and counter measures.

8. Substances, regulated by federal law under the Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), that are transported, stored, or used for maintenance, cleaning or repair, shall be managed according to RCRA and CERCLA.

C. SPECIAL CONDITIONS (continued)

9. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
- (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (e) There shall be no significant human health hazard from incidental contact with the water;
 - (f) There shall be no acute toxicity to livestock or wildlife watering;
 - (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
10. Permittee shall adhere to the following Best Management Practices:
- (a) Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, or warehousing activities and thereby prevent the contamination of stormwater from these substances.
 - (b) Provide collection facilities and arrange for proper disposal of waste products including but not limited to petroleum waste products and solvents.
 - (c) Store all paint, solvents, petroleum products and petroleum waste products (except fuels), and storage containers (such as drums, cans, or cartons) so that these materials are not exposed to stormwater or provide other prescribed BMP's such as plastic lids and/or portable spill pans to prevent the commingling of stormwater with container contents. Commingled water may not be discharged under this permit. Provide spill prevention, control, and/or management sufficient to prevent any spills of these pollutants from entering a water of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall also prevent the contamination of groundwater.
 - (d) Provide good housekeeping practices on the site to keep trash from entry into waters of the state.
 - (e) Designate an individual as responsible for environmental matters. Provide for inspection by facility staff, weekly, of any structures that function to prevent pollution from stormwater or to remove pollutants from stormwater and of the facility in general to ensure that any Best Management Practices are continually implemented and effective. Records of inspections must be kept onsite and made available to Department of Natural Resources upon request.
 - (f) Train all involved personnel in material handling and storage, and housekeeping of maintenance areas. Proof of training shall be submitted on request.

C. SPECIAL CONDITIONS (continued)

11. Reporting of Effluent Violations

If any of the sampling results from any of the outfalls show any violation of the permit discharge limitations, written notification shall be made to the Department of Natural Resources within five (5) days of notification of analytical results. Notification shall indicate the date(s) of sample collection, the analytical results, and permit number, and shall include a statement concerning the revisions or modifications in management practices that are being implemented to address the violation of the limitations that occurred.

After a violation has been reported, a sample of stormwater runoff resulting from the next rainfall greater than 0.1 inches shall be collected at outfall(s) for which the violation occurred. Analytical results of this sample shall be submitted in writing to the Department of Natural Resources.

12. Records Retention and Reporting

Monitoring reports shall be submitted within 28 days after the end of each month. All sampling shall be maintained by the permittee for a period of five (5) years and shall be supplied to the Department of Natural Resources upon written request (supersedes Part I. Section A:7. Records Retention). A copy of all of the sampling data must be submitted with an application for reissuance of this permit.